Receiving Report

	, ,	TAUUN		topo.t	_		
Date	: 14/9/1.	8	elite an estimate the	Batch No:	MI	364/8 5807	
Supp	olier: BE	1 Ferro		Dart P/Q:		5807	
nvoice:	Yes No _		Waybill At		Yes	No No	N/A
	Cash Cr _ Yes No _	<u> </u>	Shipment QC18 Insp	Complete pection _	Yes	<u> </u>	N/A N/A
)iscrepancies			Work Ord	er _	***************************************		N/A
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
	na manana na sana na matambana na na manana na manana na dalama da manana na da da da manana na da da da manan						
					2, 0, 1		
	Karana da k	.1		Initials of	Receiver	QC12	
roduction/Admi	n:		- بي المراجعة المراجعة المراجعة				
late leceived/ Cost in						Location	
nitial					• .		

HI/FORMS/Purchasing/approved purch/RECREPORT Rev F



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25807

Purchase Order Date 9/17/2014 PO Print Date 9/17/2014

Page Number 1 of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA



Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

Buyer

Chantal Lavoie

.5-2000

FedEx Overnight collect

Customer POID
Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acet:

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ CD Taxable	Req Qty/ Unit of Measure	
	Line Comments Delivery Comments		Promise Date		
J	CR3523-4-02	RIVET	9/18/2014	1,000.00	
			Yes	Each	
			9/18/2014		

Line Total:

PO Unit Price

\$950.00

Extended Price

. \$950.00

Deliver To: SYLVIE

2 71401-45

PROCUREMENT QUALITY CLAUSES

9/18/2014

No 9/18/2014 1.00

\$0.00

\$0.95

\$0.00

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT
A033 STATEMENT OF CONFORMITY/TEST RECORDS
FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Line Total:

\$0.00

Note:



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

INVOICE NUMBER

HW94ZR

PAGE 1 OF 1

- Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002 SEND TO ACCOUNTING

5040 79:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO).		DATE	SHIP VIA				TERMS		SHIP	PING TER	MS
PO25	807		09/17/14	FEDX	INTL	P1 COLL		NET 45		FOR	3-MIA	MI
ITEM NO.	QUANTITY ORDERED	PART NU	MBER AND DESCRIPTION	-l		PRICE	UNIT	BACK ORDER	SHIPPED		AMOUN	
1	1000	CR35	23-4-02			0.95	EA	0	100)		950.00
		CR I	MAX RIVET									
		Cou	ntry Origin: U	JSA								
		TAR	IFF: 7318.23.0	000			1				ļ	
		MFR	: CHERRY AEROS	PACE S	SANTA	AN						
		CTR:	L# : 2014C064	66								
		LOT:	# : 87912015	5								
		LOT	QTY: 1000						}			
			NTRY OF ORIGIN									
		Cou	ntry of Origin	ı: USA				<u> </u>				
		The	se commodities	, tec	hnolog	y or soft	ware	were				
		ı	orted from the		-			f)				
			h the Export A									}
			ersion contrar									
				_								
	*** SHIP	PED 1	CTN ***				ĺ					
	# 1=CTN	4#	0 OZ. 616010	38296	5						Ì	
	FREIGHT A	ACCT#	15179324-0					·				
								1	1			
							1					
									SUBTOTA	r. •		950.00
									HANDLIN		1	0.00
		1							DISC/AL			0.00
									INCM FR			0.00
									FREIGHT			0.00
							1		LABIGHI	•		
1-1	98JV83	CUTD	PED ON 09/17/1	1 4					TOTAL	:		950.00US
ipi	#16007.000	1	**CONSOLIDA		1 A 7 7.T	3				•	v.s.	CURRENCY
rorm	#16007.000	503	- ~CONSOLIDAI	T O14#	<i>1744</i> 0.	7						
	<u> </u>	B.F.A	TERIAL TO BE RETUR	DNED M	IST HAV	F DRIOR AUTHO	DRIZ4	ATION BY B/F AF	ROSPACE	-	J	
		IVIA	IERIAL TO BE RETUR	JIAED MIC	OI HAV	L FAION AUTH		THORD I DIE AL				

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172





B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25807

LNE# QUANTITY U/M PART-NUMBER

CUST REF#

LOT-NUMBER

CCODE MFR DATE EXP DATE

87912015

CHERRY AEROSPACE SAN 11815

MANUFACTURER

Jason Lewis

Vice President of Quality





PACKING LIST

Cherry Aerospace 1224 East Warner Avenue Post Office Box 2157 Santa Ana, CA 92707-0157



Order No: S0371011 Order Date: 08/21/12

Page:

Print Date: 02/24/14

Sold-To: 10015341

S **B/E AEROSPACE** O PO BOX 025263 \mathbf{L} MIAMI, FL 33102-5263 D USA Т 0

Ship-To: 10043053

B/E AEROSPACE INC. Н CONSUMABLES MANAGEMENT I 9835 NW 14TH ST P MIAMI, FL 33172 T USA

Salesperson (s):110

Credit Terms: NET 30 Net 30

Purchase Order: 0KAR26

Ship Via: FED EX NATIONAL CL FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0 IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

...... IESI.REP.ORTS.ENCLOSED

ECCN: EAR99

- *IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7009 ALT I
- *PREFERENCE FOR DOMESTIC SPECIALTY METALS

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3

Unless otherwise specified on this order, Cherry will manufacture and certify parts to the part number's latest revision. Latest revisions are shown at https://bizpartner.cherryaerospace.com/partrevisions.htm under "Part Number Revision List".

FOR EUROPEAN SHIPMENTS WITH A MAX WEIGHT OF 150# PER PKG AND/OR A MAX LENGTH OF 274CM PLEASE USE FEDEX ACCOUNT# 2259-703-43

Qty Open Promised Site Shipped Ln Item Number T LocationLot/Serial Qty to Ship UM

CR3523-4-02

1600

03/14/14 EΑ

Customer Item: NAS9307M-4-02) (1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 18

Order conform to the order and applicable specifications, Evidence that the material and/or parts meet

the specifications and results of all tests for each lot affected will be in our files and will be available

A0104 87911470

15825.0

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase

for your inspection at any reasonable time.

ATTENTION: PURCHASING DEPARTMENT

Quality Assurance Representative

Signed

SIM NGU



Cherry Aerospace 1224 East Warner Avenue

Post Office Box 2157

B/E AEROSPACE

PO BOX 025263

MIAMI, FL 33102-5263



PACKING LIST

Order No: S0371011 Order Date: 08/21/12

Page:

Print Date: 02/24/14

Santa Ana, CA 92707-0157

Ŏ L

D

ТО

Sold-To: 10015341

USA

Ship-To: 10043053

B/E AEROSPACE INC, CONSUMABLES MANAGEMENT

9835 NW 14TH S.T MIAMI, FL 33172

P

Н

Ι

USA

Item Number	Site T Location	Lot/Serial	Oty Open Oty to Ship	UM	Promised Shipped	
LEEDAND TODIC STANDA OETHE ERROR MAD ANDER HERR ANNO 1818	A0305	87912980	16527.0		()	
.	A0403	87904830			, .	
i lediki letih kebia terri balai aktif kedua Mila babi laba			13347.0		()	
	B0405	87905734	16202.0		, ,	
. I C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B0905	87902867	16392.0		()	
	50000	0,00200.	631.0		()	
1881 1811 1821 1810 1	C0202	87905302				
1 1880/1870 1888 1880 1884 4877 1873 1874 1876	50202	07002405	16211.0		()	
T TOOME TEKNETENDE TOUR OM IN IN OLD RETURN OUR HADE	D0302	87902405	3577.0		()	
1 130 MT 1878 1878 1877 MT 1 1878 1878 1878 1878 1878 1878	D0503	87903304	0077.0		, ,	
			3334.0		()	
	D0705	87902866	15000.0		()	
), 19 825 (1917) (1918) 1919) 20 71 (19 84 (1917) 1918 1917 1918 1 19 18 18 18 18 18 18 18 18 18 18 18 18 18	D0903	87904049	15317.0		()	
I NO OLON HOLYN PLENT HOLGS INDER ANNAL ONNEN ÖNDEL OÖNE HOPE	E0706	87913540	11900.0		()	
) 100/3/1 50/1/ 150/1 57/6/ 160/1 100 3 /14/1/ 100 3/ 16// 16// 16// 16// 16// 16//	H0305	87912978	11000.0		, ,	
			16421.0		()	
1 100504 15077 (0.010 50000 10000) 1004 0.5 (0.5 1000) 6000	H0403	87912015				
\$ (BEE) 1011 1010 1011 5010 1105 1210 1111 1610 1611	H0603	87902857	10991.0		()	
	H0003	67902657	15321.0		()	
140111111111111111111111111111111111111	H0805	87905301	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , ,	
I CARLLEL A DICCO LITTURE CROSS CROSS DOCUMENTO CARROLLA DOCUMENTO			16040.0		()	
[40]4403111111111111111111111111111111111	10203	87905300	16083.0		, ,	
	10304	87911469	1000340		()	
	10004	2.31,700	15662.0		()	
H (J0106	87904050				
(1886) (BH) (BH) (BH) (BH) (BH) (BH) (BH) (BH			16474.0		()	
100001 10001 10001 10001 00001 40001 10000 10000 10000	M0504	87904829	14966.0		()	

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

Quality Assurance Representative

SIM NGU

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.



1224 East Warner Avenue Santa Ana, CA 92707-0157



Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

Final Inspection & Test Report CherryMax® Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

Part Numbers	Rev	Proc. Spec.	Rev		
CR3523-4-02 CR3523PR-4-02		PS-CMR-3000 PS-CMR-3000	R R	Lot I.D. No.:	87912015
	, . <u></u>		·	Lot Size:	11,100
** See 2	nd Page	for the Customer Parts	,	MFG. Date:	January 31, 2014

ASSEMBLY DATA

TYPE	ID#	CERT#	MATERIAL	FINISH	LUBE
Rivet	87841222	A73175	QQ-N-281/MONEL	None	None
Stem	87785432	A71609	AMS5657 / 15-7PH	None	AS5272, Type 1, Moly Disulfide
Collar	00000000	A73929	A-286 / AMS5731	Passivate per AMS2700	None

W.O. #: 5540556 Final Lube: None

	INSTALLED	SHEAR	TENSION		SPIN	DLE RETENTION		DISASSEMBLY
MIN REQ'D	651		400		150			10
SAMPLE SIZE	5	N/A	5 .	N/A	5		N/A	5
SPECS	C-N	В	C-N	В	C-N	·	В	C-N
RESULTS	1046	1	688		227	-		42
ALCOOL TO	1061	1	678		236			87
	997	}	668		242			72
	1061		656		230			72
	1002		663	İ	251			72
C=CR N=NAS M=MIL B=BAC LOAD VALUES IN POUND								

PCS.	<u>ITEM</u>	STATUS	PCS.	ITEM	<u>STATUS</u>
20	EXAMINATION	PASS	<u>20</u>	INSTALLATION (Min and Max Grips)	PASS

Comments:	Tr. Rev: -	Q Code
Blind Fastener	Rev. Date: 1/31/2014	V10
	Inspector	<u> </u>
	V Iriarte	374

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.



MATERIAL TEST REPORT

	<u>·//</u> [·/ 13639]		NTA FE SPRINGS 1-3471 • (562) 921		(A. 9067.0	•					
F.O.B.	SFS	SHIP VIA BP TR	RUCK	JO	B NO.			OICE NO. 78429		· · · · · · · · · · · · · · · · · · ·	
SH-P FO	CHERRY AER 1224 E WARN SANTA ANA, (IER AVE		cu	DER DATE 11/27/12 ST. P.O. NO. PO14678 E DATE	7-2	IN TIC CO RE	CONFORMANC NS. THE INFO RRECT AS C CORDS FACE EE.	CE WITH TI PRIMATION I CONTAINED	ACTURED AND THE NOTED SPEC PRESENTED HER ON THE CORCURY & RADIO	CIFICA- REIN IS MPANY
SOLD	CHEDDY AED	OCDACELL	O ATTN. A		06/08/13				EZ, L	to sup	
	CHERRY AER PO BOX 2157		CATIN: AV		13 6016	S		6/3/2013	3 ALF		
0	SANTA ANA,	CA 92707-0°			2055	#		·	R 252.22		
		HODOOT ONDE	incu		TY. ORDERED		_		. 1 COMP		<u></u>
,	0.374 DIA TYF CONVERTED 0.1225/0.1235 COATED COI	TO SEAMSAFE	MIRAFLEX	2	2000		FA S D	ALSE, FICT TATEMENTS OCUMENT I	ITIOUS, S OR E MAY BE ER FEDE	FULLY RECOF OR FRAUDU NTRIES ON PUNISHABLE RAL LAW, TIT	JLENT THIS AS A
SPECIF	CATIONS M015,1230 RE ONLY AMS 47 GRADE	EV AC (W/LE	TTER DATED ONLY IHEAT NO.	6/13/12) Q	Q-N-281-D C	LASS A	CHEM				
	M-400		165791								
	CHEMICA	L ANALYSIS		AS	MECH TENSILE, KSI	ANICAL PE	OPERTIES A	ND CAPABIL	ITY		$\overline{}$
	C: 0.02 MN: 0.9	AL: (TI:	0.04	SHIPPED	% RA	75.4	HARDNESS	54.3	SHEAR.	KSI	
•	P: <0.002	B:									
	S: 0.003	CB:		ETT *F	TENSILE, KSI	YIELD, I	(SI _	% ELON		% R.A.	
	SI: 0.12 NI: 64.6	TA: CB+TA:		STRESS RUPTURE	TEMP 'F	STRESS	, KSI	HOURS	· · · · · · · · · · · · · · · · · · ·	% ELON	
	CR:	CU:			TEMP *F	STRESS	, KSI	HOURS		% ELON	
	MO:	SE:		H.T. PROCEDUR	RE			<u> </u>			
(CO: 0.02 V:	N:	4 55		TENSILE, KSI	······································	YIELD, KSI	······································	% ELO!		
	CA:	FE: PB:	<0.001		% R.A.		HARDNESS		SHEAR.	978	
٨	MG:	BI:								m Pacific	73
7	ZN:<0.01	SN:<	0.002	H.T. PROCEDUR	RE .					fic inc i	175
AS	STM GRAIN SIZ	F: 6/7			TENSILE, KSI	· · · · · · · · · · · · · · · · · · ·	YIELD, KSI		% ELON		美
	OM, GERMANY	0//			% R.A.		HARDNESS		SHEAR,	ī	
M	ACRO:			H.T. PROCEDU	I		<u> </u>			.	
	ICRO:				TENSILE, KSI	·	YIELD, KSI		% ELON		
0,	THER:				TENOICE, NO		TIELD, NO		N ELUN	ı	

JUN 1 3 2019



SHEAR, KSI

Outokumpu VDM

This material is free from Mercury, Radium or Alpha particle contamination.

As far as US-laws are applicable, the recording of false, fictitous or fraudulent statements or entries on this document may be punished as a feloney under federal statues including federal law, title 18, chapter 47

Country of Origin and Melt: Federal Republic of Germany

Product conforms with the requirements of DFARS 252.225-7014 ALT I

The material has been manufactured without the use of ozone depleting chemicals Inclusion Level according to ASTM E 45

Typ A thin: 1.5

Typ B thin: none

authorized inspection representative: Ulrich Titze

Tel: +49 2392 55-2640 Fax: +49 2392 55-2636

EMail: ulrich.titze@outokumpu.com

This certification was created by machine and is valid without signature

A73175

JUN 1 3 2013



CERTIFICATE OF TESTS CERT SERIAL# 000842843

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

ARPENT

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

10/02/12

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMEN MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW. TITLE 18 CHAPTER 47.

CHAPTER 47.

THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE
ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY
REFFRENCE TO THE CARPENTER ORDER NUMBER.

◆ MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEURPAGE 1 OF

CUSTOMER / BESTELLER / CLIENT

CHERRY AEROSPACE LLC PO BOX 2157 1224 E WARNER ,CA 92707 SANTA ANA

CARPENTER TECHNOLOGY CORP

S (COM)

101 W. BERN STREET ,PA 19601 READING

CUSTOMER ORDER NO./BESTELL-NR./Nº DE COMMANDE	CARPENIER NO./WERKS-NR./Nº DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
PO126508-4	LOS944501 L39388	10/02/12	4761.000

HEAT NUMBER / SCHMELZE-NR. / Nº DE COULEE :

566214

PRODUCT DESCRIPTION: CARPENTER 15-7 PH ANNEALED COLD FINISH C HDG SC2 STRAND CU/SOAP JIT

SPECIFICATION: CHERRY AEROSPACE M-84 REV AC (06/22/10) EXCPT LTR (07/25/11) PENDING

AMS 5657 REV C (08/ /07) (CHEM ONLY)

SIZE 0.083000 IN.(2.11 MM) RD WIRE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM) P (XRF) MN(XRF) SI(XRF) 0.014 N (FUS) AL (XRF) MO (XRF) NI(XRF) 2.15

CAPABLE OF SURFACE FINISH OF 63 RMS MAX

(COILS 1 THRU 26 F & B) (COILS 1 THRU 2 F & B) MICRO SURFACE DEFECT - ACCEPTABLE MICRO SURFACE DEFECT - ACCEPTABLE

296 500 GRAM LOAD (CENTER) HARDNESS AS SHIPPED, HV PER ASTM E384

113.0 { 161.0 {

(T) RANSVERSE (L) ONGITUDINAL YIELD STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN .33", %

CAST TEST: ACCEPTABLE

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

OCT 3 1 2012



CR (XRF)

2



Certificate of Conformance

Sold To: CHERRY AEROSPACE

SANTA ANA OPERATIONS 1224 EAST WARNER AVE

SANTA ANA, CA 92705-5414

Date Shipped: 10/25/2013

PO#: VP125694

Radcliff No.: 130265

Heat No.: KUAS00138

Qty. Shipped: 83 LBS-6-BLACK MIG

SPOOLS

Item Description

.006 X .011 X .056

A286 Stainless Steel

SPECIAL SHAPE

AMS 5731 REV L,

AMS 5737 REV P **CHEM ONLY**

Melting Country: France

Producing Country: France

Notes: PART# M189.44 RV W CONSIGNMENT ORDER

Chemical Analysis

Al: 0.158%

B: 0.007%

C: 0.038%

Co: 0.203%

Cr: 14.98%

Cu: 0.126%

Mn: 1.78%

Mo: 1.27%

DR

Ni: 24.52%

P: 0.019%

S: 0.002%

Si: 0.149%

Ti: 2.2%

V: 0.319%

NOV 1 5 2013

FEB 1 0 2014

Mechanical Properties

Tensile: 96 KSI

We certify that the chemical analysis, physical properties, and mechanical test results are correct as contained in our records, and that they conform to customer requirements.

Material as shipped, is free from mercury contamination.

Material is DFAR compliant

Lisa Piatek

Certification Clerk





KOS LIMITED

131-1, YUSAN-DONG, YANGSAN-SI, KYUNGNAM, KOREA

TEL: (055) 389-1050 FAX: (055) 385-9189

E-mail: kosyrd@koswire.com

Inspection Certificate

DESCRIPTION	STAINLESS STEEL WIRE FOR COLD WADING		(psb)
MILL CERT, NO.	AB1 - 201307A-0161	GRADE	A286VAR
P.O NO.	1022369	OLAMETER	0.0300 inch
INVOICE NO.	8135086/01 (B135231-01)	PINISK	DU X-CO (760-SP(N))
CONTRACTOR	KOS AMERICA, INC.	QUANTITY	667.6 LBS (2 SPOOLS)
CUSTOMER	INTERVIRE GROUP (NEAD OFFICE)	APP. SPEC	BUYER'S SPEC

CHEMICAL COMPOSITION

(nt%)

CH. NO.	С	Si	Яn	Ρ	S	Ni	Cr	Мо	Cu	٧	Al
KUASD0138	0.0380	0.1490	1.7800	0.0190	0.0020	24.5200	14.9800	1,2700	0.1260	0.3190	0.1580

INSPECTION RESULTS

ITENS	SIZE	T/S	R/A								
NO.	(inch) +0.00050 -0.00050	(ksi) 110.0 90.0	5)()	<u> </u>	_)	<u> </u>	<u> </u>	LOT NO.	RESIARX
1 3	0.0295	109.5 109.8	64.3 .64.5						4	181211-30707-0001 181211-30710-0009	K1(ASO0138
· ·											
						-	4	10 V	1-5	2013	P
							FE	B 1	0 20	4	

specification of the order.

HANAGER OF Q.C Dept.

ENT)



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25790

Purchase Order Date 9/16/2014 PO Print Date 9/16/2014

Page Number 1 of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID Customer Tax #

Terms

Net 30

10127-2607

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ CD Taxable Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN3C11A	BOLT	9/18/2014 Yes 9/18/2014	50.00 Each	\$0.80	\$40.00
					Line Total:	\$40.00
2	MS27039C1-14	Screw	9/18/2014 FN Yes 9/18/2014	100.00 Each	\$0.55	\$55,00
					Line Total:	\$55.00
3	CR3553-4-02	RIVET	9/18/2014 FN Yes 9/18/2014	100.00 Each	\$1.09	\$109.00

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25790

Purchase Order Date 9/16/2014 PO Print Date 9/16/2014

Page Number 2 of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

Buyer

Michael Gregoire

Customer POID Customer Tax #

10127-2607

Terms

Net 30 USD

Currency

FCA - (Free Carrier)

Ship Via: Ship Acct: FedEx PI collect

FOB

9/18/2014

0.00

\$109.00

71401-45

9/18/2014

No

Each

\$0.00

\$0.00

Procurement Quality Clauses

A005 RIGHT OF ENTRY A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Line Total:

Line Total:

\$0.00

PO Total:

\$204.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

Change Nbr:

1

Change Date:

9/16/2014

M. Gregarie



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth, on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25790

LNE# QUANTITY U/M PART-NUMBER

100 EA CR3553-4-02

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

87827763

CHERRY AEROSPACE SAN 11815

Jason Lewis

Vice President of Quality

Inv # 09/16/14

09/16/14





0

PACKING LIST

Page:

Order No: S0377848 Order Date: 07/26/13

Print Date: 12/12/13

Cherry Aerospace 1224 East Warner Avenue Post Office Box 2157 Santa Ana, CA 92707-0157

Sold-To: 10015341

B/E AEROSPACE 0 PO BOX 025263 L MIAMI, FL 33102-5263 D USA T 0

Ship-To: 10015341

B/E AEROSPACE H PO BOX 025263 I MIAMI, FL 33102-5263 P USA Т

Purchase Order: 0RHY01

Ship Via: FED EX NATIONAL CL

FOB: Origin - Collect

Salesperson (s):110

Credit Terms: NET 30

Net 30

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0 IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

Test reports enclosed

ECCN: EAR99

.....DO.N.OT.DESTROY...

*IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7009 ALT I

*PREFERENCE FOR DOMESTIC SPECIALTY METALS

CHERRY DOES NOT ACCEPT QAP33 A.3 ITEM 3

Unless otherwise specified on this order, Cherry will manufacture and certify parts to the part number's latest revision. Latest revisions are shown at https://bizpartner.cherryaerospace.com/partrevisions.htm under "Part Number Revision List".

REFERENCE PURCHASE ORDER DEVIATION REQUEST FORM DATED 7/31/12

RELEASE# WZ4F0RHY01

Site T LocationLot/Serial Qty Open Qty to Ship UM **Promised**

Shipped

Ln Item Number

1600

EΑ

02/20/14

CR3553-4-02

Customer Item: BACR15FR4M2R

ASNA0078E402X

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

Signed

SIM NGUY





Cherry Aerospace 1224 East Warner Avenue

Post Office Box 2157 Santa Ana, CA 92707-0157



PAQ

G LIST

Order No: S0377848
Order Date: 07/26/13

Print Date: 12/12/13

(A)

Sold-To: 10015341

S	B/E AEROSPACE
0	B/E AEROSPACE PO BOX 025263 MIAMI, FL 33102-5263
7 1	MIAMI, FL 33102-5263

USA

TO

1

Ship-To: 10015341

S H AEROSPACE PO BOX 025263 MIAMI, FL 33102-5263 USA

	Site	Qty Open	Promised
Ln Item Number	T Location Lot/Serial	Oty to Ship	UM Shipped

			•		
CR3553-4-02					
CAN43079M4-2					
MBBN3012M3602					
124 AN 1953 1543 1554 1554 1554 1554 1554 1554 1554 1554 1554 1554 1554 1554 155	B0303	87854046			
			4696.0	(} .
	B0906	87857515	13772.0	()
	C0303	87852289			
			15893.0	()
	D0503	87827763	15964.0	()
	E0105	87862056	16273.0	()
	E0903	87858830	4100.0	()
) HATAN COM TARRE HEAD ONN HARR ANN CANN CAN TAR	G0803	87857906			
			6700.0	()
E TO THE	K0202	87857516			
			16214.0	()
TECH THIN BERLEFIN HAN SHEW MER THE THE TAN THE	K0204	87857905			
			6393.0	()

TEST REPORTS ENCLOSED DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be avaliable for your inspection at any reasonable time.

Quality Assurance Representative

Signed SIM NGUYEN

EN ()





Final Inspection & Test Report CherryMax® Rivet

1224 East Warner Avenue Santa Ana, CA 92707-0157

An ISO9001 and AS9100 registered company. OASIS #6111041606

Part Numbers	Rev	Proc. Spec.	Rev
CR3553-4-02	AC	PS-CMR-3000	R
CR3553PR-4-02	AC	PS-CMR-3000	R

Lot I.D. No.: 87827763

16,000 Lot Size:

June 06, 2013 MFG. Date:

** See 2nd Page for the Customer Parts

ASSEMBLY DATA

TYPE	ID#	CERT#	MATERIAL	FINISH	LUBE
Rivet	87810287	A71878	QQ-N-281/MONEL	None	None
Stem	87806705	A71604	AMS5657 / 15-7PH	None	AS5272, Type 1, Moly Disulfide
Collar	00000000	A72891	A-286 / AMS5731	Passivate per AMS2700	None

W.O. #: 5520951

Final Lube: None

	INSTALLED	SHEAR	TENSIO	N	SPINDLE R	ETENTION	DISASSEMBLY
MIN REQ'D	751		490		150	150	10
SAMPLE SIZE	. 5	5	5	5	5	5	5
SPECS	C-N	В	C-N	В	C-N	В	C-N-B
RESULTS	920	920	622	662	338	338	48
	925	925	648	648	316	316	36
	973	973	668	668	290	290	28
	974	974	656	656	302	302	50
i	965	965	657	657	350	350	41
=CR N=NAS =MIL B=BAC OAD VALUES POUND							

STATUS STATUS PCS. **ITEM** PCS. ITEM **PASS INSTALLATION (Min and Max Grips) EXAMINATION PASS** <u> 20</u> 20

Comments:

Blind Fastener

Q Code Tr. Rev. V01 Rev. Date: 6/6/2013 Inspector J Esquivel

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory. The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.

A-1 Wire Tech, Inc.

Certified Material Test Report

HEAT/LOT

Load ID. 00085415

MM73P2BR11

SOLD TO

Page 1

CHERRY AEROSPACE 1224 East Warner Avenue Santa Ana, CA 92705 USA

SALES ORDER 106992 / 8

Date Printed 10/26/2012

CUSTOMER P.O.

CUSTOMER PART

QUANTITY PIECES

SHIPMENT DATE

PO132027-20

M015.1370

421.00

10/26/2012

PRODUCT: Alloy: M400LC

Diameter:.1370"

Length:X Coll M015

Temper:.

Finish:Shaved, Soap Drawn

7044101-137-00-92

CERTIFICATION REQUIREMENTS

M015.1370 REV AA, QQ-N281 D CLAS A FORM 7

CHEMISTY ONLY TO: AMS4730G

*As Shipped Properties

TEST	<u>UNITS</u>	<u>RESULTS</u>
*Tensile	ksi	77.1
*Yield	ksi	65.6
*Elongation	Percent	42.6
*Reduction Of Area	Percent	84.8
*Grain Size	Grain Si	10
*Hardness	HRB	82
TEST	RESULT	

Pass

NOV - 8 2012

Chemical Analysis %

С	Mn	. Fe	s	Si	Cu	Ni	A1	P	Pb	Sn
.02	1.00	1.56	.002	.16	32.7	64.25	.02	.01	.00017	.00020

Zn .00039

*Wrap/Bend

Specifications

*Melt Source

DFARS COMPLIANT / MELT SOURCE: HUNTINGTON ALLOYS / COUNTRY OF ORIGIN: USA / MFG: USA

Visual and dimensional examination Satisfactory

Material, when shipped is free from contamination by mercury, radium, alpha source, and low melting point elements.

This is to certify that all required samplings, inspections, operations and tests performed by A-1 Wire Tech, Inc. and its subcontractors are in accordance with the specification requirements. The test report represents the actual attributes of the material furnished and the values shown are correct and accurate. The material described by this certificate is in full compliance with all order and inspection requirements. We hereby certify that the above data are in accordance with the specification requirements. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under federal statute

usam Milli

Suzanne Mullins **Quality Assurance Manager**



HUNTINGTON ALLOYS CORPORATION

3200 Riverside Drive, Huntington, West Virginie 25708-1771 USA Tel: +1.304.525.5100 Toll-Free in the USA: 1.800.334.4626 Fax: +1.304.526.5643 Info@specialmetals.com

Certificate No. 8574-00

Dated

26-SEP-12

CERTIFIED MATERIALS TEST REPORT

Page No.

1 / 3

Note: The recording of false, fictitious or fraudulent statements on entries on this document may be purishable as a falony under federal statute. This report relates only to the item(s) tested and say not be reproduced except in full.

Customer

A-1 WIRE TECH
C/O HUNTINGTON ALLOYS CORP
ACCOUNTS PAYABLE
3200 RIVERSIDE DRIVE
HUNTINGTON WV

ship to A-1 WIRE TECH 52800 HIGGINS BLVD ELKHART IN 46514

Sales Order Number

Purchase Order Number

Mark Order Number

Material Reat / Lot Identity

100055232 / 1.2

33208

33208-3

MM73P2BR11

UNS Number

N04400

Material Description

MONEL alloy 400, AIR, , HOT ROLLED ROD - COIL, PICKLED, ANNEALED, .5310, IN 8 PCS 7012 LBS

Specifications

US FED QQ-N-281D AM 2 CL A CHEM ONLY/ ASTM B 164-03 (2008) CHEM ONLY/ ASME SB-164 2010 EDITION 11 ADDENDA CHEM ONLY/ SAE AMS 4730G CHEM ONLY/ NACE MR0175-ISO 15156-3 2ND EDITION (2009)/ GE S-400 (10-10-2011)/ GE S-1000 (8-1-2011)/ ASME SECTION III 2010 EDITION 11 ADDENDA NCA-3800/ A-1 M400LC MOD FOR CUST 295-01 REV 4-11-08.

NOV - 8 2012



				ANALY	SIS			
	C %	MN %	FE %	S %	SI % «	CU %	NI %	
	. 02	1.00	1.56	.002	.16	32.70	64.25	3P X
Method	CS344	XR26	XR26	CS344	XR26	XR26	XR26	1878 ***********************************
	AL %	P %	PB %	SN %	zn 🤏 🔭			
	.02	.01	.00017	.00020	.00039			
Method	JACO	JACO	ICP-MS	ICP-MS	ICP-MS			



HUNTINGTON ALLOYS CORPORATION

3200 Riverside Drive, Huntington, West Virginia 25765-1771 USA Tel: +1,304.526.5100 Toll-Free In the USA: 1.800.334.4628 Fax: +1,304.526.5643 Info@specialmetals.com

Certificate No. 8574-00

Dated

26-SEP-12

CERTIFIED MATERIALS TEST REPORT

Dame Wo

3 / 3

HUNTINGTON ALLOYS CORPORATION IS AN ACCREDITED INDEPENDENT NADCAP MATERIALS TESTING LABORATORY VIA CERTI-FICATE NUMBER 127805 (EXPIRES APRIL 30,2013) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION. MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REV. 49, DATED 2/17/2011 QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125); EN 10 204/DIN 50049 (TYPE 3.1)

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.

MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE, AND LOW MELTING ELEMENTS.

CHEMICAL ANALYSIS AS REQUIRED FOR CARBON, SULFUR, NITROGEN, OR OXYGEN IS PERFORMED BY COMBUSTION TECHNIQUES. ALL OTHER REPORTED BLEMENTS ARE ANALYZED BY X-RAY AND/OR EMISSION SPECTROSCOPY."

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:

W.E. BOLEN, N.A. MORRISON, D.K. MILLER, K.R. SMITH, G.J. BURKHEAD

S)

NOV - 8 2012



This is to certify that all required samplings inspections and tests have been performed in accordance with the order and specification requirements. The test report represents the actual attributes of the material furnished and the values shown are correct and true. The material described by this certificate is in full compliance with all order and inspection requirements. We hereby certify that the figures given are in accordance with the specified contract requirements.

REV. 8/08

Signed

or and on behalf of HUNTINGTON ALLOYS CORPORATION

BRIGHTRAY, CORRONEL, FERRY, INCOCLAD, INCOLOY, INCONEL, INCOTHERM, INCO-WELD, KOTHERM, MAXORB, MONEL, NILO, NILOMAG, NIMONIC, NIOTHERM, NI-SPAN, UDIMET & WIGGIN are trademarks of the Special Metals group of companies

CERTIFICATE OF TESTS CERT-SERIAL# 000843114

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CARPENTER

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

10/02/12 CUSTOMER/BESTELLER/CLIENT THE RECORDING OF FALSE. FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMEN MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW. TITLE 18 CHAPTER 47.

THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
►THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL. WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEURPAGE 1 OF

CHERRY AEROSPACE LLC PO BOX 2157 1224 E WARNER SANTA ANA ,CA 92707

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET READING , PA 19601

CUSTOMER ORDER NO./BESTELL-NR./Nº DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
PO126508-9	LOS945501 L39392	10/02/12	957.000

HEAT NUMBER / SCHMELZE-NR. / Nº DE COULEE :

566322

PRODUCT DESCRIPTION: CARPENTER 15-7 PH ANNEALED COLD FINISH SEAM FREE C HDG

SC2 STRAND CU/SOAP PART NUMBER: M084.0975

SPECIFICATION: CHERRY AEROSPACE M-84 REV AC (06/22/10) EXCPT LTR (07/25/11)

----- PENDING AMS 5657 REV C (08/ /07) (CHEM ONLY)

SIZE 0.097500 IN.(2.48 MM) RD WIRE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM) MN (XRF) SI (XRF) P (XRF) S (COM) CR (XRF) 0.07. 0.55. 0.31 0.014 0.001 15.41

NI(XRF) MO(XRF) AL(XRF) N (FUS)
7.34 1.34 0.026

CAPABLE OF SURFACE FINISH OF 63 RMS MAX

HARDNESS AS SHIPPED, HV - 312 (CENTER)

PER ASTM E384 500 GRAM LOAD

(T) RANSVERSE (L) ONGITUDINAL LYIELD STRENGTH, (0.20 %) KSI (MPA) 117.0 (807) OCT 3 1 2012 ELONGATION IN .39", % 33.0

MICRO SURFACE DEFECT - ACCEPTABLE (COILS 1 THRU 5 F & B)

CAST TEST: ACCEPTABLE

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

A71604

2

CONTINUED ON NEXT PAGE

Certificate of Analysis

Radcliff Wire Inc. 97 Ronzo Rd., P.O. Box 603, Bristol, CT 06010

Date Shipped: 4/4/2013

PO #: VP 125694

Qty. Shipped: 101 LBS-9-BLACK

MIG SPOOLS

Radcliff No.: 128158

Heat No.: QM399

Customer: CHERRY AEROSPACE

SANTA ANA OPERATIONS

1224 EAST WARNER AVE

SANTA ANA, CA 92705-5414

Country of Origin: FRANCE

Original Mill Source: FRANCE

Notes:

.006 X .011 X .056

DFAR COMPLIANT PART# M189.44 REV W NET WGT 101 LBS CONSIGNMENT ORDER

Material: A286 Stainless Steel

Description: SPECIAL SHAPE

Specification: AMS 5731 REV L, AMS 5737 REV P

CHEM ONLY

Chemical Properties

Size:

Al: 0.15%

B: 0.006%

BI: <0.00002%

C: 0.03%

Co: 0.14%

Cr: 14.8%

Cu: 0.14%

Fe: BAL%

Mn: 1.74%

Mo: 1.47%

Ni: 25.78%

P: 0.016%

Pb: <0.0002%

S: 0.002%

SI: 0.14%

V: 0.3%

Ti: 2.08%

MAY 3 0 2013

Tensile: 96 KSI

Rockwell:

Certs/Material

Lisa Piatek

Certification Clerk

The material as shipped is free from mercury contamination

CERTIFICAT DE RECEPTION 3.1-EN 10204 nº C064094/2

. Inspection certificate - Abnahmeprüfzeugn:s

CENTRAL W UNION

2009916

%: 07.20.11

D.3.PRS.010.S REV.B 05/05/11

303811/01

ALLONGEMENT FLONGATZON.....

ETAT HYPERTREMPE 900° + VIEILLISSEMENT 720°16H AIR

HEAT TREATHENT OF TEST SPECIMEN 1650°F 1H MATER+1325°F16H AIR

LIMITE ELASTIQUE. YIELO STRENGTH 0,28.: 778 MPA RESISTANCE..... TENSILE STRENGTH....: 1128 MPA ALLONGEMENT..... ELONGATION SUR 40.... : 29.0 % STRICTION..... RED. OF AREA...... : 48.0 % DURETE HB..... 327 HB

FLUAGE

STRESS RUPTURE TEST AT 1200°F (649°C)

UNDER 65.000 PSI (448MPA)

DUREE DE VIE....: 189.9 H ALLONGEMENT..... ELONGATION......: 25.0 %

MELTING PROCESS: EF+VAR NO WELDING WITH FILLER METAL HAS BEEN PERFORMED STRESS RUPTURE AND AGE HARDENING AND CHEMISTRY

TO MEET LATEST ISSUE OF AMS 5731L, AMS 5732J, 5734K AND 5737P
ARCELORMITTAL SNA CERTIFIES THAT THIS MATERIAL HAS BEEN MELTED
PRODUCED IN FRANCE, QUALIFYING COUNTRY, AS REQUIRED BY
DFARS 252 225-7014
MATERIAL IS FREE FROM MERCURY, RADIUM, OR ALPHA SOURCE

CONTAMINATION

THE WILLFUL RECORDING OF FALSE OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY RESULT IN PUNISHMENT AS A FELONY UNDER FEDERAL STATUTES

MAY 3 0 2013





Carpenter Te 101 West Be Tel: (610) 208

> 10/02/ CUSTOMI

CHERRY PO BOX 1224 I SANTA

CUSTOMER ORDER NO

PO126508-9

HEAT NUMBER / CARPENTER'S (
THE REQUIREMINEVIEW INSTIT
3.1 OF EN 10:
IN ACCORDANCE
AS DOCUMENTE

TEST METHODS ACCEPTANCE,

M084.0975

PERTH. ON ERIN, ON DUMAS, AR LANCASTER, SC 613-267-3752 FAX 613-267-5617 519-633-9632 FAX 519-833-2213 870-382-2980 FAX 870-382-6988 803-283-3353 FAX 803-283-6303



FOND DU LAC, WI UNION, IL PERRIS, CA

_920-928-0609_FAX.920-928-0652 815-923-2131 FAX.815-923-2126 951-857-2105 FAX.951-943-6081

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: sales@centralwire.com

CENTRAL WIRE 6509 OLSON ROAD TEL: 815-923-2131

UNION, IL 60180-9730 FAX: 815-923-2126

CERTIFICATE OF CONFORMANCE

RADCLIFF WIRE INC. P. O. BOX 603 SOLD BRISTOL TO

USA

CT 06011-0603

SHIP TO

RADCLIFF WIRE INC. 97 RONZO ROAD BRISTOL,

CT 06011-0603

USA

CUSTOMER'S PO NO. TYPE OF CERT CUSTOMER ORDER NO. WORK ORDER DATE SHIPPED 45995 Customer 124610 1176 181 4139972 1/08/13 SPECIFICATIONS:

	ITEM DESCRIPTION		
Forming A286SF SKIN PASSED Bright .0300 200LB Plas	RIPTION Melt mill Aperam	SPEC. CLASS	HEAT QM399
.0300 200LB.Plas Clean	Country of origin France	QTY SHIP 8 9 7	044

C . 03	MN 1.74	SI	P	s	CR	***
	1./4	.14	.016	.00%	14.80	NI 25.78
MO 1.47	. 14	CO . 14	AL .15	TI 2.08	FE Balance	B . 00 <i>6</i>
V	Bi	PB			1 20101100	.006

S SHIPPED PR	OPERTIES:				
TENSILE 18.000 SI MIN	TENSILE 121.000 KSI MAX				
TER HEAT TH	REAT PROPERTIES:		 		
				: · · · · · · · · · · · · · · · · · · ·	25
				Q	6

ASSIVATED IN PROCESS

MAT 3 U ZUIS

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,

AUTHORIZED SIGNATURE

This certification is m Die vorliegende Zertifte Ce certificat est uniques FormSprint Form: #07:T_CERT,P2, 08/19/11



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25790

LNE# QUANTITY U/M PART-NUMBER

50 EA AN3C11A

CUST REF

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

68702

MAC FASTENERS

ORFT4

Jason Lewis

Vice President of Quality

. MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER: B/E AEROSPACE

PO: 0REB08

PART NUMBER: AN3C11A

REV: 3

LOT NUMBER: 68702

MANUFACTURED QUANTITY: 6,100

MILL HEAT NUMBER: 568732

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is an AS9100C Regestered Company- SAI GLOBAL - 0058029 Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4 Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 04/23/14

QUALITY ASSURANCE REPRESENTATIVE

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000883248

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

06/28/13 CUSTOMER / BESTELLER / CLIENT

MAC FASTENERS INC

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT HAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAN. TITLE 18. CHAPTER 47.

THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF AMALYSES AND TESTS HADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMENATION THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL MITHOUT THE WRITTEN CONSENT OF CAPPENTER TECHNOLOGY CORPORATION.

SELLER/VERKÄUFER/VENDEURPAGE

1110 E. ENTERPRISE KS 66067

BOL

CUSTOMER ORDER NO./RESTELL-NR./Nº DE COMMANDE	CARPENTER NO./WERKS-HR./Nº DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GENICHT/POIDS
79757	W71792	06/28/13	8742.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

568732

PRODUCT DESCRIPTION: TYPE 431 COLD FINISH SEAM FREE ANNEALED C HDG CL K1 HVY

SPECIFICATION: ASTM-A493-09

WIRE 0.187500 IN.(4.76 MM) RD SIZE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

P (XRF) MN(XRF) C (COM)

0.63

SI(XRF)

o.009

CR(XRF)

NI(XRF) 1.56

TENSILE AS SHIPPED.

98.5(KSI (MPA)

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DEARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DEARS REQUIREMENTS DEARS 252.225-7008 AND 252.225-7009.
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

GARY BROWN
MANAGER - SPECIFICATIONS/CERTIFICATIONS
CARPENTER TECHNOLOGY CORPORATION

Gay Bours

This cortification is made to the customer printed on this form, Curpenter mither makes, not assumes responsibility for, any we Die vurlingende Zertifizierung ist mer für den in diesem Formuler generatien Kunden glitig. Curpen übernimmi agagnüber i de certificat eri uniquement valable pour la citent dong le nore set imprimé sur ce foinrubère. Carpenter n'essume pas de respon-